

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 9-1-65

RECEIVED
JAN 30 1985
OIL CON. DIV.
DOR.

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 1-24-85			
Company El Paso Natural Gas				Connection Northwest Pipeline			
Pool Basin				Formation Dakota		Unit	
Completion Date		Total Depth 8077		Plug Back TD 8043		Elevation 6771 GR	
Farm or Lease Name San Juan 27-5 Unit							
Csg. Size 4.500	Wt. 11.6	d 4.000	Set At 8077	Perforations: From 7970 To 8015		Well No. 109 E	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 7995	Perforations: From To		Unit Sec. Twp. Rge. J 3 27 5	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba	
Producing Thru CSG		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12	
State New Mexico							
L	H	Gg .700	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"
						Taps FLG	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1947		2190		21 Days
1.	4"	x	.500	226	69	85	1397		870		24 Hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.182	128.15	238	.9813	1.195	1.024	182
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.36	515	1.39	.954	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2202 P _c ² 4848804	
NO.	P _f ² P _w P _w ² P _c ² - P _w ²
1	1409 1985281 2863523
2	
3	
4	
5	

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{4848804}{2863523}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4844$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 270$$

Absolute Open Flow	270	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:

Approved By Commission:	Conducted By: Cliff Brook	Calculated By: Ed Mabe	Checked By: kd 1-29-85
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